ROHM GROUP
LAPIS TECHNOLOGY

MK715x1 Evaluation Kit Mini（MK715x1EK1）
MK715x1 Evaluation Kit Mini Plus（MK715x1EK1P）
Hardware Manual

Issue Date: Dec. 1, 2020

ROHM SEMICONDUCTOR

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3) Do not use our Products in applications requiring extremely high reliability, such as aerospace equipment, nuclear power control systems, and submarine repeaters.

4) The Products are designed for use in a standard environment and not in any special environments. Application of the Products in a special environment can deteriorate product performance. Accordingly, verification and confirmation of product performance, prior to use, is recommended if used under the following conditions:
   [a] Use in various types of liquid, including water, oils, chemicals, and organic solvents.
   [b] Use outdoors where the Products are exposed to direct sunlight, or in dusty places.
   [c] Use in places where the Products are exposed to sea winds or corrosive gases, including Cl_2, H_2S, NH_3, SO_2, and NO_2.
   [d] Use in places where the products are exposed to static electricity or electromagnetic waves.
   [e] Use in environment subject to strong vibration and impact.
   [f] Use in proximity to heat-producing components, plastic cords, or other flammable items.
   [g] Use involving sealing or coating the Products with resin or other coating materials.
   [h] Use of the Products in places subject to dew condensation.
   [i] Use in an environment where the temperature is always low, such as in a freezer.
   [j] Use in an environment where the temperature change of this product increases due to the influence of the surrounding heat source.
   (Example: IH cooking heaters, industrial robots, FA equipment, infrastructure equipment, etc.)

5) The Products might receive the radio wave interference from electronic devices such as Wireless LAN devices, Bluetooth devices, digital cordless telephone, microwave oven and so on that radiate electromagnetic wave.

6) The Products are not radiation resistant.

7) Verification and confirmation of performance characteristics of Products, after on-board mounting, is advised.

8) Confirm that operation temperature is within the specified range described in the Specification.

9) Although LAPIS Technology is continuously working to improve product reliability and quality, semiconductors can break down and malfunction due to various factors. Therefore, if product malfunctions may result in serious damage, including that to human life, sufficient fail-safe measures must be taken, including the following:
   [a] Installation of protection circuits or other protective devices to improve system safety.
   [b] Installation of redundant circuits in the case of single-circuit failure.

10) Failure induced under deviant condition from what defined in the Specification can not be guaranteed.

11) This product is a specification to radiate the radio wave. It is necessary to acquire the attestation of decided Radio Law of each region used to use the equipment that radiates the radio wave.
Please inquire about the attestation of Radio Law that this product acquires.

12) When product safety related problems arises, please immediately inform to LAPIS Technology, and consider technical counter measure.

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1) If change is made to the constant of an external circuit, allow a sufficient margin due to variations of the characteristics of the Products and external components, including transient characteristics, as well as static characteristics.

2) The reference circuit examples, their constants, and other types of information contained herein are applicable only when the Products are used in accordance with standard methods. Therefore, if mass production is intended, sufficient consideration to external conditions must be made.

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This product is Electrostatic sensitive product, which may be damaged due to Electrostatic discharge. Please take proper caution during manufacturing and storing so that voltage exceeding Product maximum rating won't be applied to the Products. Please take special care under dry condition (Grounding of human body / equipment / solder iron, isolation from charged objects, setting of Ionizer, friction prevention and temperature / humidity control etc.)

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1) Product performance and connector mating may deteriorate if the Products are stored in the following places:
   [a] Where the Products are exposed to sea winds or corrosive gases, including Cl_2, H_2S, NH_3, SO_2 and NO_2
   [b] Where the temperature or humidity exceeds those recommended by LAPIS Technology Temperature: 5°C to 40°C, Humidity 40% to 60%
   [c] Storage in direct sunshine or condensation.
   [d] Storage in high Electrostatic.

2) Even under LAPIS Technology recommended storage condition, connector mating, mountability, and heat resistance of products over 1 year old may be degraded.

3) Store / transport cartons in the correct direction, which is indicated on a carton as a symbol, otherwise bent leads may occur due to excessive stress applied when dropping of a carton.

● Precaution for Product Label

QR code printed on LAPIS Technology product label is only for internal use, and please do not use at customer site.
It might contain internal products information that is inconsistent with product information.

● Precaution for Disposition

When disposing Products, please dispose them properly with an industry waste company.

● Prohibition Regarding Intellectual Property

LAPIS Technology prohibits the purchaser of the Products to exercise or use the intellectual property rights, industrial property rights, or any other rights that either belong to or are controlled by LAPIS Technology, other than the right to use, sell, or dispose of the Products.

● The other precautions

1) Please use the Products in accordance with any applicable environmental laws and regulations, such as the RoHS Directive. For more details, including RoHS compatibility, please contact a ROHM sales office. LAPIS Technology shall have no responsibility for any damages or losses resulting non-compliance with any applicable laws or regulations.

2) When providing our Products and technologies contained in the Specification to other countries, you must abide by the procedures and provisions stipulated in all applicable export laws and regulations, including without limitation the US Export Administration Regulations and the Foreign Exchange and Foreign Trade Act.

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Yokohama 222-8575, Japan
http://www.lapis-tech.com/en/

Preface

This document outlines the hardware of the MK715x1 evaluation kit Mini [MK715x1EK1] and MK715x1 evaluation kit Mini Plus [MK715XxEK1P] equipped with Bluetooth® 5 compatible Bluetooth low energy module MK715x1 [MK71521 or MK71511] made by Lapis Technology.

This evaluation kit is pre-installed with the AT command application that easily realizes Bluetooth® Low Energy communication by using a simple AT command via UART.

The following related documents are available, so please refer to them if necessary.

- MK71511 Data Sheet
- MK71521 Data Sheet
- MK715x1 Software Development Startup Guide
- BLE Tool User's Manual
- MK715x1 AT command application Quick Reference Guide
- MK715x1 AT command application User's Manual

Note: In this document, MK715x1 refers to both MK71511 and MK71521.

Table of Contents

1. Overview

1.1 Handling precautions

・MK715x1EK1/MK715x1EK1P can be used only for evaluating MK715x1. We do not take any responsibility for any direct or indirect damage caused by installing this product in your product.

・We are not responsible for any modification or illegal use of this development kit.

1.2 MK715x1EK1/MK715x1EK1Pconfiguration

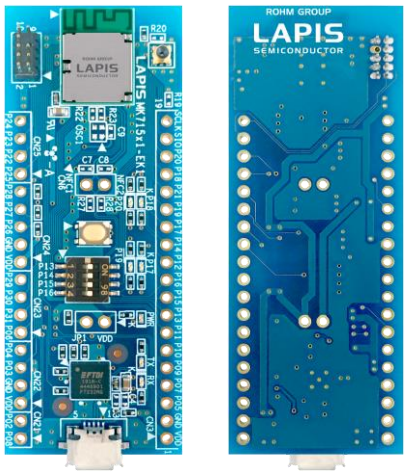
When you receive the MK715x1EK1/MK715x1EK1P, make sure that the following items are all included in the kit. If you find any broken or missing items, please contact the distributor where you purchased the product or the ROHM sales office.

MK715x1EK1 configuration

Component	Quantity
MK715x1 evaluation board	1

MK715x1EK1P configuration

Component	Quantity
MK715x1 evaluation board	1
USB cable	1
J-Link LITE	1



Top View Bottom View

Fig. 1-1: MK715x1EK1 appearance

1.3 Lineup

The MK715x1 evaluation kit has the following lineup depending on the installed modules and accessories.

Product name	Module	accessories
MK71511 evaluation kit Mini (MK71511EK1)	MK71511	-
MK71521 evaluation kit Mini (MK71521EK1)	MK71521	-
MK71511 evaluation kit Mini Plus (MK71511EK1P)	MK71511	USB cable、J-Link LITE
MK71521 evaluation kit Mini Plus (MK71521EK1P)	MK71521	USB cable、J-Link LITE

※J-Link LITE is licensed for MK71511EK1/MK71521EK1.
※Use of MK71511EK1/ MK71521EK1 for purposes other than evaluation is prohibited.

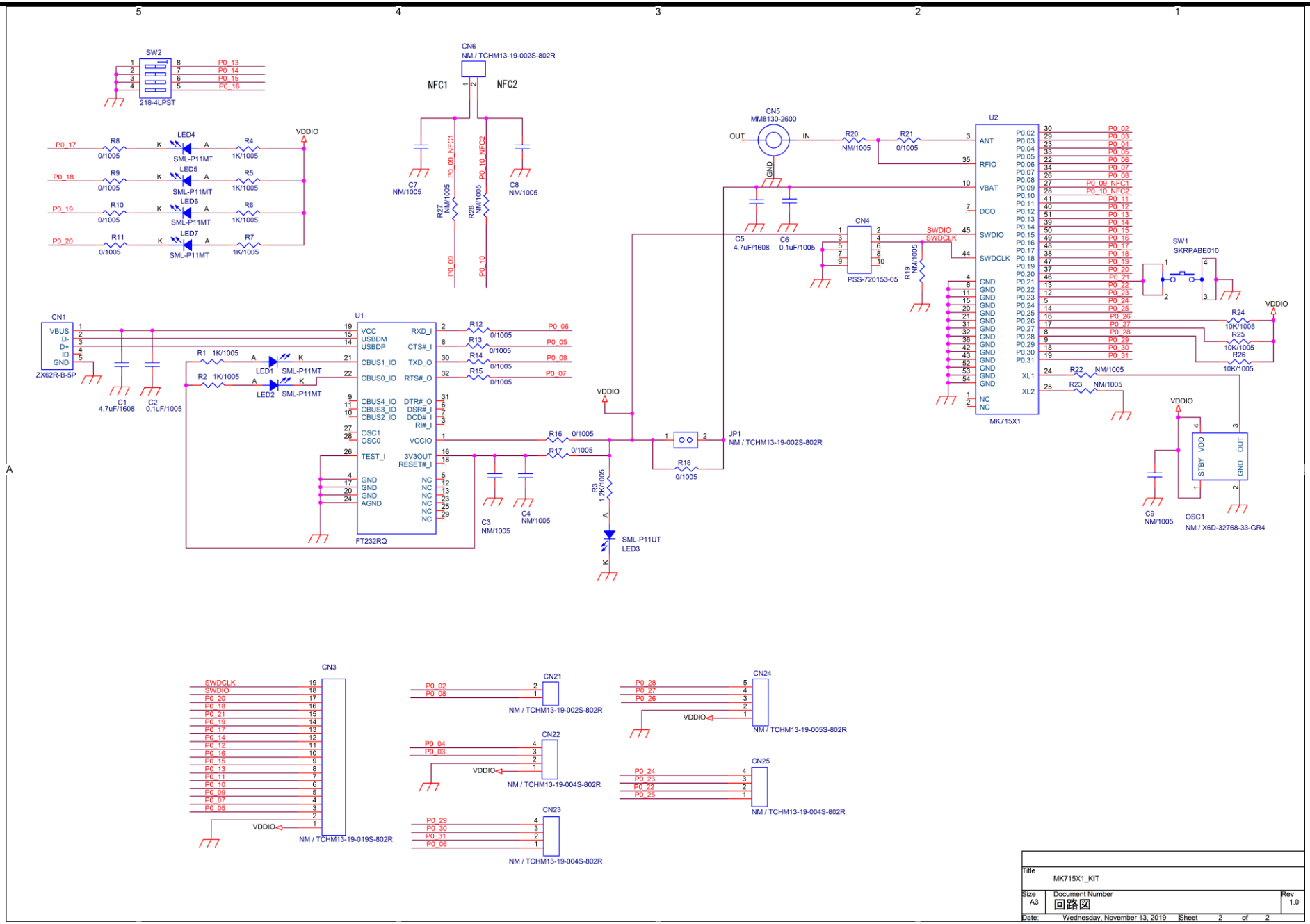
2. Hardware specifications

2.1 Circuit schematic

See next page

2.2 BOM List

Reference	Value	Manufacturer	Model number
U1	―	FTDI	FT232RQ
U2	―	Lapis Technology	MK71511 or MK71521
LED1,LED2	―	ROHM	SML-P11MT
LED3	―	ROHM	SML-P11UT
LED4,LED5,LED6,LED7	―	ROHM	SML-P11MT
R1,R2	1k	ROHM	MCR01MZPJ102
R3	1.2k	ROHM	MCR01MZPJ122
R4,R5,R6,R7	1k	ROHM	MCR01MZPJ102
R8,R9,R10,R11	0	ROHM	MCR01MZPJ000
R12,R13,R14,R15,R16,R17,R18	0	ROHM	MCR01MZPJ000
R19,R20	NoMount	ROHM	
R21	0	ROHM	MCR01MZPJ000
R22,R23	NoMount	ROHM	
R24,R25,R26	10k	ROHM	MCR01MZPJ103
C1	4.7u	MURATA	GRM188R61C475KAAJ
C2	0.1u	MURATA	GRM155B31H104KE14D
C3	NoMount	-	-
C4	NoMount	-	-
C5	4.7u	MURATA	GRM188R61C475KAAJ
C6	0.1u	MURATA	GRM155B31H104KE14D
C7	NoMount	-	-
C8	NoMount	-	-
C9	NoMount	-	-
OSC1	NoMount	River Eletec	X6D-32768-33-GR4
CN1	―	HIrose	ZX62R-B-5P(30)
CN21	NoMount	K.K. Tokiwa Shoko	TCHM13-19-002S-802R
CN22	NoMount	K.K. Tokiwa Shoko	TCHM13-19-004S-802R
CN23	NoMount	K.K. Tokiwa Shoko	TCHM13-19-004S-802R
CN24	NoMount	K.K. Tokiwa Shoko	TCHM13-19-005S-802R
CN25	NoMount	K.K. Tokiwa Shoko	TCHM13-19-004S-802R
CN3	NoMount	K.K. Tokiwa Shoko	TCHM13-19-019S-802R
CN4	―	HIROSUGI	PSS-720153-05
CN5	―	Murata	MM8130-2600
CN6	NoMount	K.K. Tokiwa Shoko	TCHM13-19-002S-802R
SW1	―	ALPS	SKRPABE010
SW2	―	CTS Electrocomponents	218-4LPST
JP1	NoMount	K.K. Tokiwa Shoko	TCHM13-19-002S-802R


SW2
218-4LPST
P0_13
P0_14
P0_15
P0_16
VDDIO
P0_17
P0_18
P0_19
P0_20
R8
R9
R10
R11
R4
R5
R6
R7
0/1005
1K/1005
LED4
LED5
LED6
LED7
SML-P11MT
CN6
NM / TCHM13-19-002S-802R
NFC1
NFC2
C7
C8
NM/1005
R27
R28
P0_09_NFC1
P0_10_NFC2
CN5
MM8130-2600
OUT
IN
GND
R20
R21
NM/1005
0/1005
U2
ANT
RFIO
VBAT
DCO
SWDIO
SWDCLK
GND
XL1
XL2
NC
MK715X1
C5
4.7uF/1608
C6
0.1uF/1005
CN4
PSS-720153-05
R19
SW1
SKRPABE010
CN1
VBUS
D-
D+
ID
GND
ZX62R-B-5P
C1
C2
U1
VCC
USBDM
USBDP
CBUS1_IO
CBUS0_IO
CBUS4_IO
CBUS3_IO
CBUS2_IO
OSC1
OSC0
TEST_I
3V3OUT
RESET#_I
VCCIO
RXD_I
CTS#_I
TXD_O
RTS#_O
DTR#_O
DSR#_I
DCD#_I
RI#_I
NC
FT232RQ
R1
R2
LED1
LED2
R12
R13
R14
R15
R16
R17
R18
R3
1.2K/1005
JP1
NM / TCHM13-19-002S-802R
C3
C4
SML-P11UT
LED3
R24
R25
R26
10K/1005
R22
R23
C9
OSC1
NM / X6D-32768-33-GR4
CN3
NM / TCHM13-19-019S-802R
CN21
NM / TCHM13-19-002S-802R
CN22
NM / TCHM13-19-004S-802R
CN23
NM / TCHM13-19-004S-802R
CN24
NM / TCHM13-19-005S-802R
CN25
NM / TCHM13-19-004S-802R
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Date:
Wednesday, November 13, 2019
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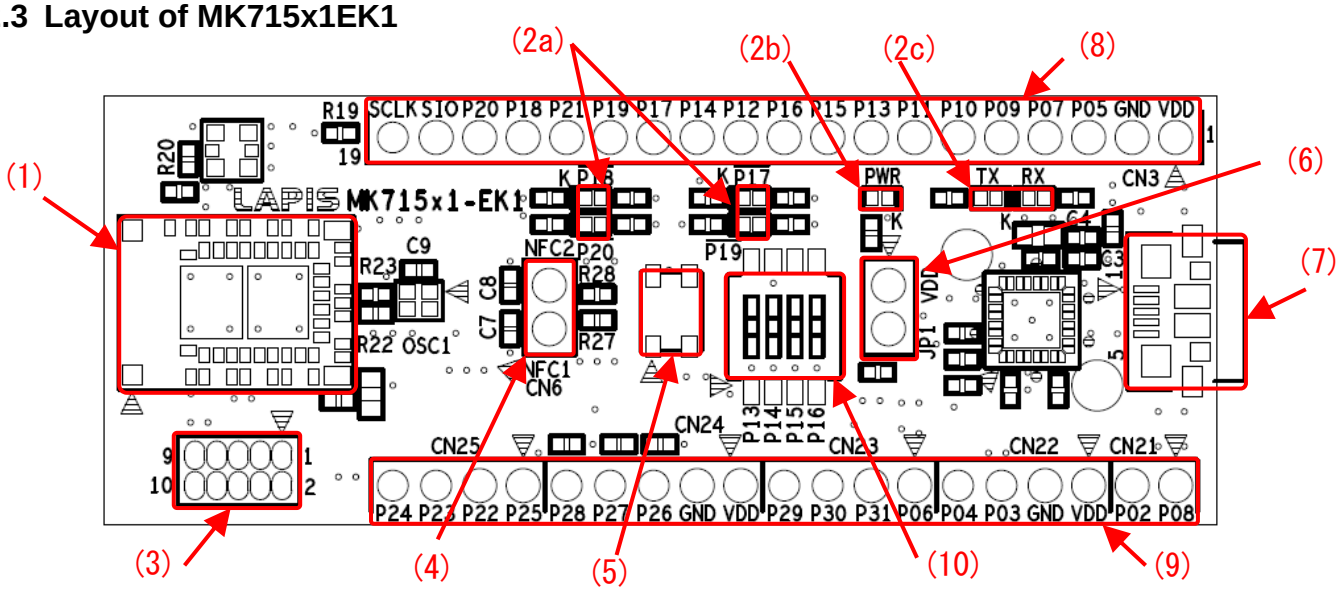
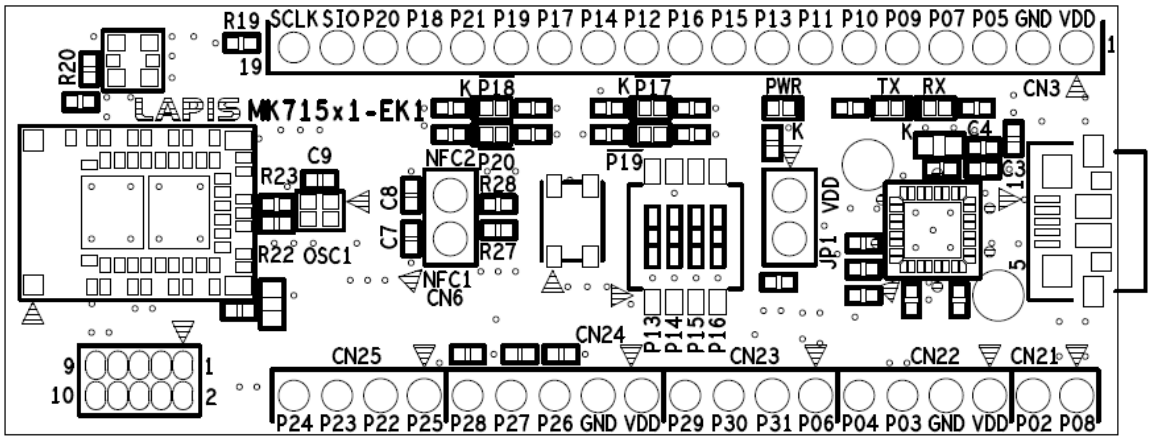
2.3 Layout of MK715x1EK1

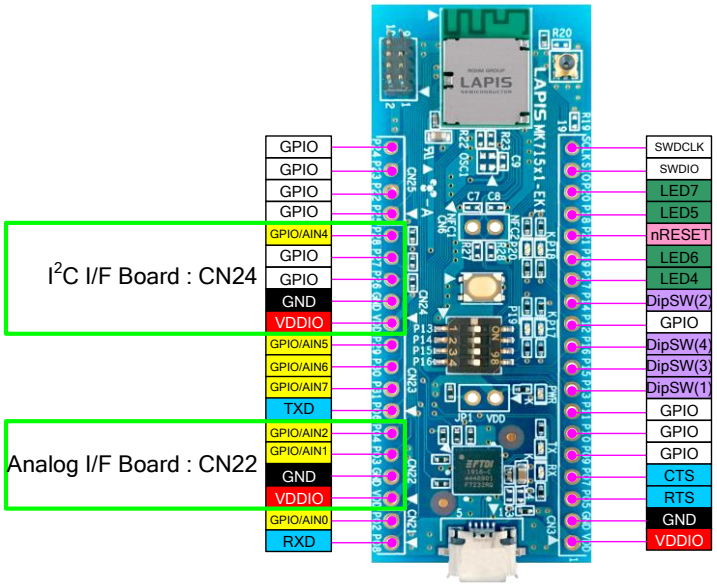


No	Name	Description	Symbol	(Maker) Part.NO	Remarks
(1)	MK715X1	Bluetooth® low energy module	U2	(LAPIS) MK71511 or MK71521	
(2a)	—	General-purpose LED×4	LED4-LED7	(ROHM) SML-P11MT	Green
(2b)	—	Power LED × 1	LED3	(ROHM) SML-P11UT	Red
(2c)	—	UART status LED×2	LED1-LED2	(ROHM) SML-P11MT	Green
(3)	PSS-720153-05	J-Link	CN4	PSS-720153-05	
(4)	—	NFC Interface	CN6		Valid for only MK71521
(5)	Reset Switch	Module Reset	SW1	(ALPS) SKRPABE010	
(6)	—	Current measurement Interface	JP1	NoMount	Shorted by R18 at shipment
(7)	USB Interface	Micro USB Interface	CN1	(Hirose) ZX62R-B-5P(30)	UART, +5V-DC power supply
(8)	—	external Interface	CN3	NoMount	GPIO, external power supply
(9)	—	external Interface	CN21-CN25	NoMount	GPIO, external power supply
(10)	DIPSW-4	Switch	SW2	(CTS Elec.) 218-4LPST	

2.4 Silkscreen Printing



2.5 The pin assignment for External interface



CN25

Pin Name.	MK715x1EK1 Assignment	nRF52 Port	nRF52 Function
P24	GPIO	P0.24	GPIO
P23	GPIO	P0.23	GPIO
P22	GPIO	P0.22	GPIO
P25	GPIO	P0.25	GPIO

CN24 : Suitable for I2C I/F board connection

Pin Name.	MK715x1EK1 Assignment	nRF52 Port	nRF52 Function		I²C I/F board Pin Function
P28	GPIO/AIN4	P0.28	GPIO/AIN4		INT
P27	GPIO	P0.27	GPIO	Connection example	SCL
P26	GPIO	P0.26	GPIO		SDA
GND	GND	GND	Ground		GND
VDD	VDDIO	VDD	Power		VDD

【Supplement】
P26～P28 : 10kΩ pull-up

CN23

Pin Name.	MK715x1EK1 Assignment	nRF52 Port	nRF52 Function
P29	GPIO/AIN5	P0.29	GPIO/AIN5
P30	GPIO/AIN6	P0.30	GPIO/AIN6
P31	GPIO/AIN7	P0.31	GPIO/AIN7
P06	UART TXD	P0.06	GPIO

CN22 : Suitable for analog I/F board connection

Pin Name	MK715x1EK1 Assignment	nRF52 Port	nRF52 Function		Analog I/F board Pin Function
P04	GPIO/AIN2	P0.04	GPIO/AIN2		AOUT2
P03	GPIO/AIN1	P0.03	GPIO/AIN1	Connection example	AOUT1
GND	GND	GND	Ground		GND
VDD	VDDIO	VDD	Power		VDD

CN21

Pin Name	MK715x1EK1 Assignment	nRF52 Port	nRF52 Function
P02	GPIO/AIN0	P0.02	GPIO/AIN0
P08	UART RXD	P0.08	GPIO

CN3

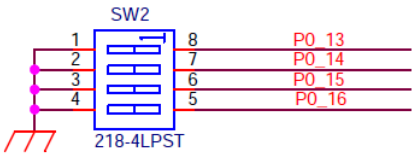
Pin Name	MK715x1EK1 Assignment	nRF52 Port	nRF52 Function
SCLK	SWDCLK	SWDCLK	SWDCLK
SIO	SWDIO	SWDIO	SWDIO
P20	LED7	P0.20	GPIO
P18	LED5	P0.18	GPIO
P21	nRESET	P0.21	GPIO/nRESET
P19	LED6	P0.19	GPIO
P17	LED4	P0.17	GPIO
P14	DIP SW (2)	P0.14	GPIO
P12	GPIO	P0.12	GPIO
P16	DIP SW (4)	P0.16	GPIO
P15	DIP SW (3)	P0.15	GPIO
P13	DIP SW (1)	P0.13	GPIO
P11	GPIO	P0.11	GPIO
P10	GPIO	P0.10	GPIO/NFC2
P09	GPIO	P0.09	GPIO/NFC1
P07	UART CTS	P0.07	GPIO
P05	UART RTS	P0.05	GPIO/AIN3
GND	GND	GND	Ground
VDD	VDDIO	VDD	Power

2.6 Switch

2.6.1 DIPSW-4

DIP SW is connected to four ports from P0.13 to P0.16
The port assignment and circuit configuration are shown below.

Symbol	Pin No.	GPIO	Initial setting
SW2	1	P0.13	On
	2	P0.14	Off
	3	P0.15	Off
	4	P0.16	Off



※DIP SW substitutes the four user buttons on the Nordic nRF52DK Board.

2.6.2 Reset Switch

Pushing the reset switch puts the MK715x1 into a reset state.

Reset Switch

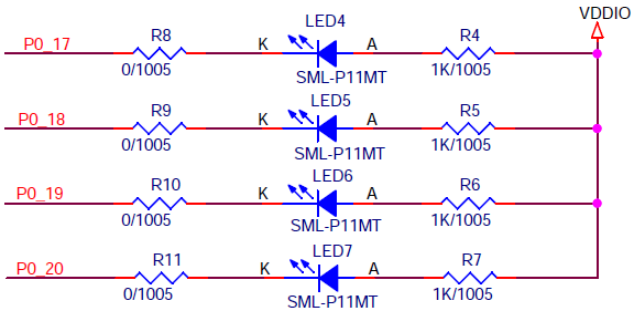
State	Function
ON	P0.21/nRESET = Low (Reset state)
OFF	P0.21/nRESET = High (Reset releas state)

2.7 LED

2.7.1 General-purpose LED

General-purpose LEDs (green) are connected to the ports from P0.17 to P0.20.
The port assignment and circuit configuration are shown below.

No	Silkscreen Printing	port	LED active
LED4	P.17	P0.17	P0.17=Low
LED5	P.18	P0.18	P0.18=Low
LED6	P.19	P0.19	P0.19=Low
LED7	P.20	P0.20	P0.20=Low



2.7.2 Power LED

The Power LED (red) lights on when the power (VDDIO) to the MK715x1 is turned on.

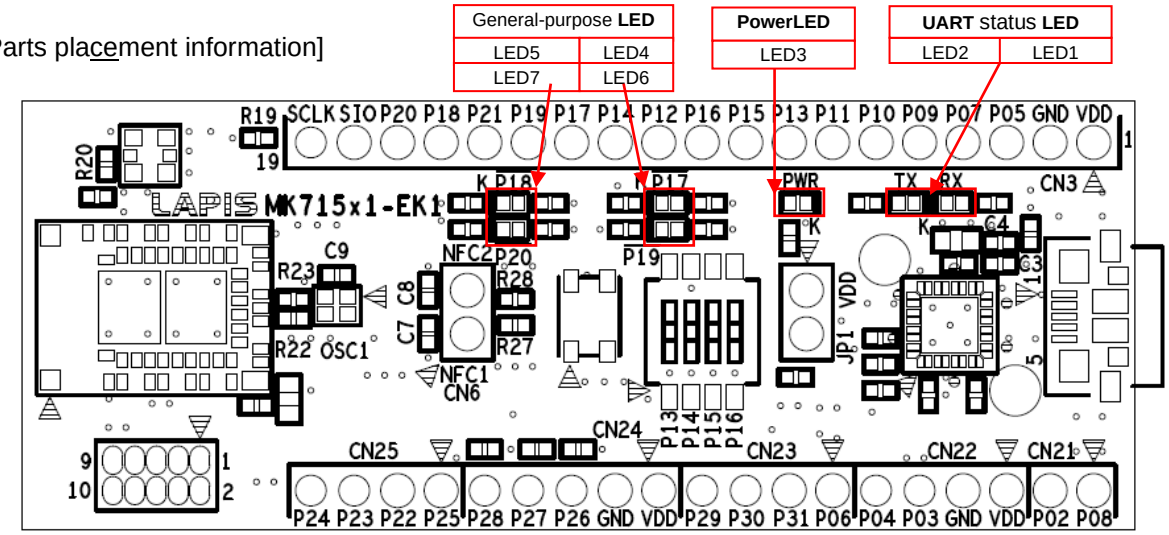
No	Silkscreen Printing
LED3	PWR

2.7.3 UART status LED

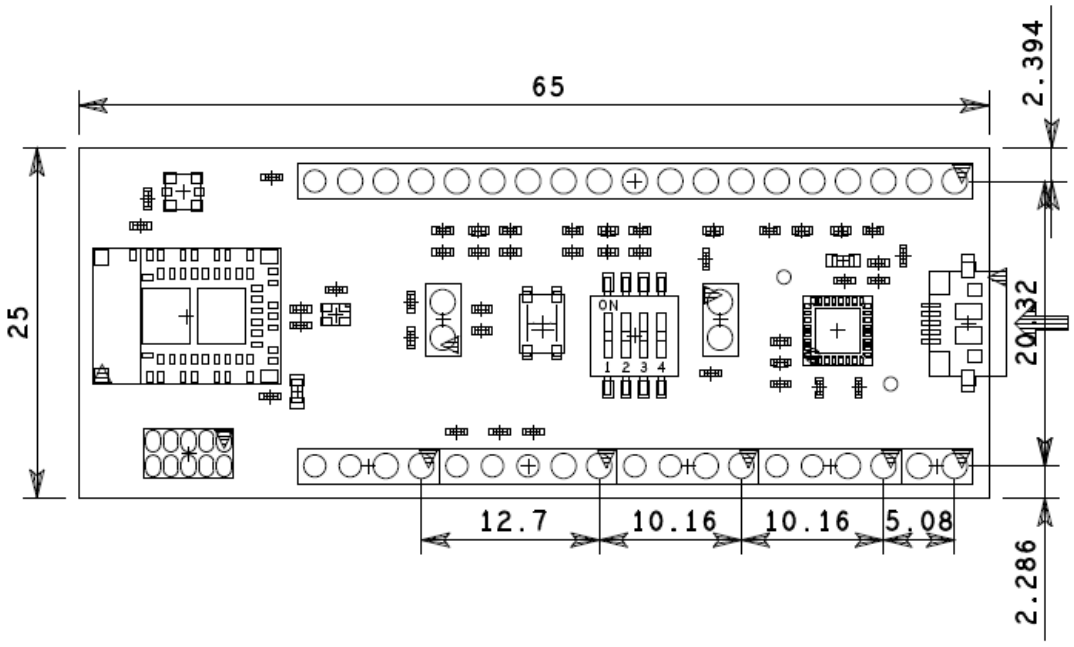
The UART status LED (green) flashes during UART transmission and reception.

No	Silkscreen Printing
LED1	RX
LED2	TX

[Parts placement information]



2.8 Outline



Unit [mm]

3. How to use sample software

The AT command application software is installed in this kit. Please prepare MK715x1 evaluation kit and smartphone application "BLE Tool". This section briefly describes the operation of the AT command application, using the MK715x1 side as a peripheral device and connecting to a central device such as a smartphone as an example.

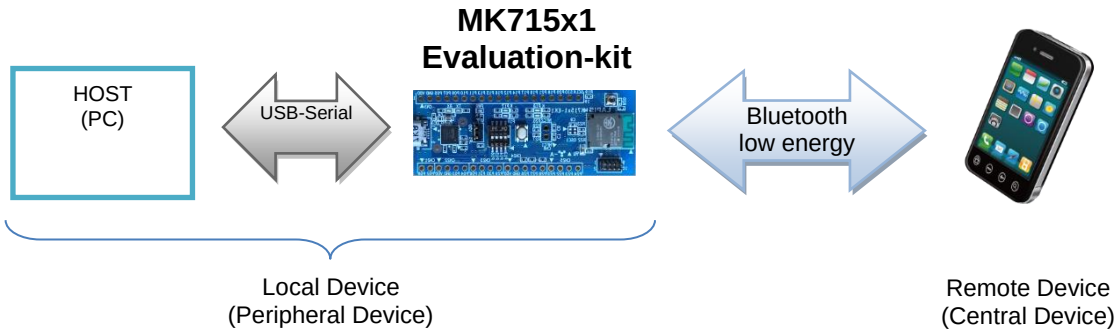


Fig. 3-1 : System configuration (when connecting to a smartphone, etc.)

Refer to "MK715x1 AT Command Application User's Manual" for detailed specifications of AT command application for MK715x1.

3.1 PC set up

1) Connect MK715x1EK1 and the USB port of your PC with USB cable(A-microB type).
When using it for the first time, USB serial conversion IC driver should be installed.
Download driver software from the following site, if necessary.
https://www.ftdichip.com/Drivers/VCP.htm

2) Start up terminal software such as Tera Term, and set the serial port as follows:

Port:	COM port number used
Baud Rate:	57,600 bps
Data:	8 bit
Parity:	None
Stop:	1 bit
Flow Control:	Hardware

3.2 Smartphone Set up

The application on the smartphone uses BLE Tool. Please download and install from the following.

Google Play : https://play.google.com/store/apps/details?id=com.lapis_semi.bleapp
App Store : https://itunes.apple.com/jp/app/ble-tool/id915714158?mt=8&ign-mpt=uo%3D4

3.3 Terminal Software Operation

With the Dip Switch on the MK715x1 evaluation kit as the initial setting, pushing the reset button executes the AT command application. If you input "at<CR>" which is AT command for command acceptance confirmation from the terminal and then the result code string is output as shown below, UART communication between the PC and MK715x1 evaluation kit is normal. Input of "at" command is not output because echo back from MK715x1 is disabled.

Fig. 3-2 : Result code string output screen for command reception confirmation

Then, when you start the peripheral operation, type "atd <CR>" and the MK715x1 Evaluation Kit will start the advertisement transmission. Alternatively, to initiate a central operation, type "ata <CR>" and the MK715x1 Evaluation Kit will initiate a scan and search for peripheral devices. The preparation for the MK715x1 side is now complete.

3.4 BLE Tool operation

3.4.1 Application start

Tap the "BLE Tool" icon to start the application. (Fig. 3-3)

Fig. 3-3: BLE Tool

3.4.2 Data communication

Bluetooth® Low Energy communication can be performed by the following steps.
For details on how to use "BLE Tool", refer to the related document "BLE Tool User's Manual".

A) When "BLE Tool" is started, the screen in Fig. 3-4 (A) is displayed. In this screen, the central side scans and displays Bluetooth® low energy devices from the detected advertisement packets. The AT command application for MK715x1 is displayed with the device name "LapisDev" by default, so tap this.

B) The Bluetooth® Low Energy connection procedure is executed, and the service search screen shown in Fig. 3-4 (B) is displayed. At this time, "CONNECT" is output to the terminal screen on the peripheral side. In the screen in Fig. 3-4 (B), the central side executes the service search and displays the detected services. In case of AT command application for MK715x1, two services of "Device Information" and "LAPIS Serial Port Profile" are displayed. The latter is the service used for data communication in AT command applications. Tap the "LAPIS Serial Port Profile" icon.

C) The screen shown in Fig. 3-4 (C) is displayed. You can send and receive data on this screen. When you tap the text box displayed at the bottom of the screen, the soft keyboard is displayed, so if you input a character string from the soft keyboard and tap the "Send" button, the character string you input to the peripheral will be sent. Similarly, if you enter characters from the terminal screen on the peripheral side, it will be sent to the central side.

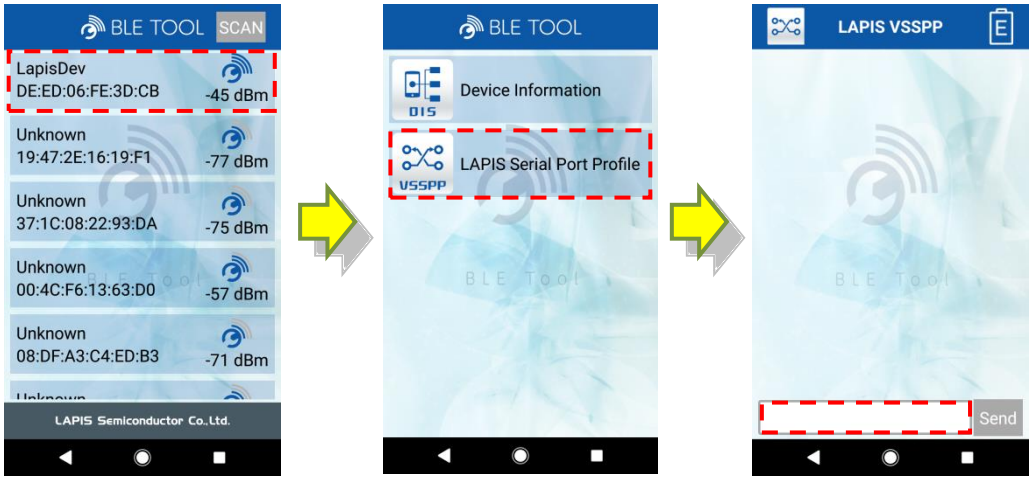


Fig. 3-4 : BLE Tool operation screen example

The figure below shows an example of performing data communication using the above procedure. The character string input from “BLE Tool” is output in black characters as shown in Fig. 3-5 (a), and the same character string is also output to the terminal on the peripheral side (Fig. 3-5 (b)). The character string input from the terminal on the peripheral side as shown in Fig. 3-5 (c) is output in red on the “BLE Tool” screen (Fig. 3-5 (d)).

Fig. 3-5 : Example of data communication screen

3.4.3 Read device information

The AT command application for MK715x1 also provides Bluetooth SIG standard device information service (DIS). As shown in Fig. 3-6, tap the “DIS” icon on the service search screen to read the device information of the peripheral. Fig. 3-6 shows the default settings for the AT command application for MK715x1. It is necessary to change the device information according to the customer system used. For correction of device information, refer to "MK715x1 AT Command Application User's Manual".

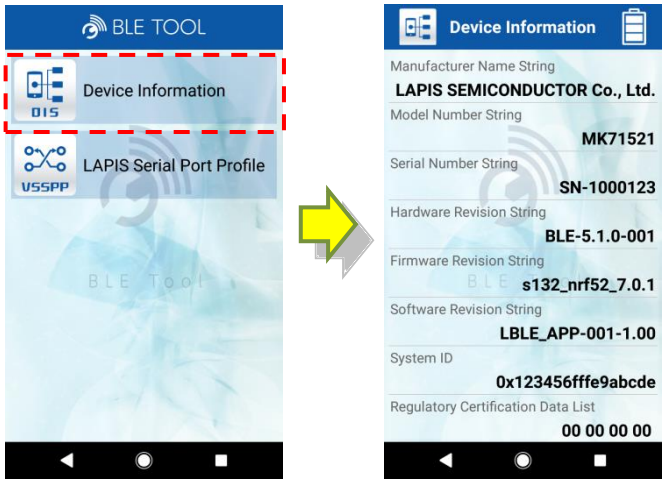
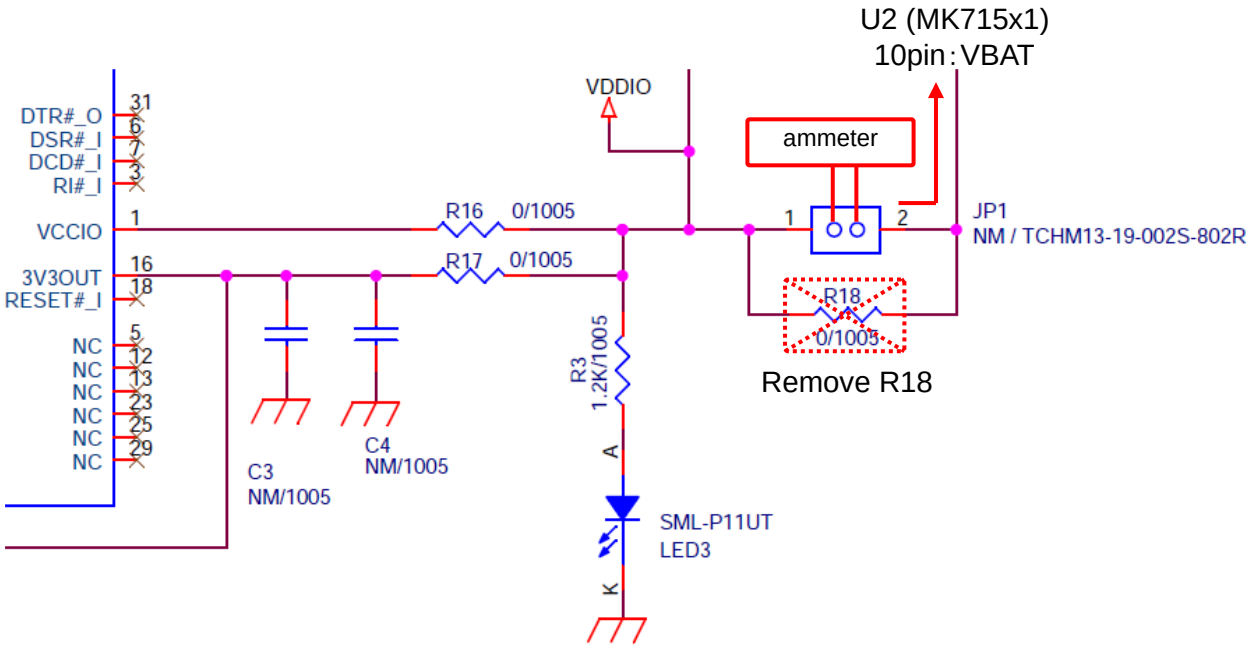


Fig. 3-6 : Device information screen example

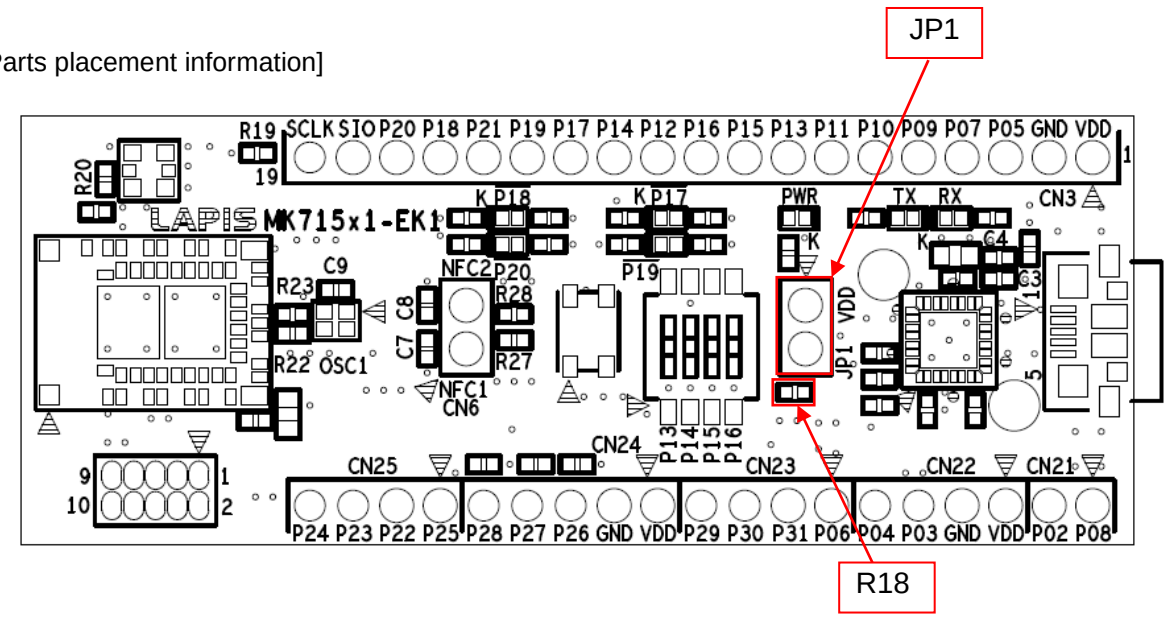
This concludes the brief explanation of how to use the AT command application for the MK715x1. For other AT command operations, refer to "3. AT Command" in "AT Command Application for MK715x1 Quick Reference Guide".

4. Current measurement method

To measure the current of MK715x1, remove the R18 and insert an ammeter between pin1 and pin2 of JP1.



[Parts placement information]



A. Appendix

A.1 Correspondence between each evaluation kit and Nordic SDK Example Project

If you use the Nordic SDK v16.0.0 Example Project, follow the table below.

Eval. Kit Name	Applicable Nordic DK Board Type	Preferable Nordic SoftDevice	Note
MK71511EK1	PCA10056e	S112	Some modifications are required (See A.2)
MK71521EK1	PCA10040	S132	

Table. A-1 : Correspondence between each evaluation kit and Nordic SDK Example Project

A.2 Example Project modification steps required for MK71511EK1

MK71511EK1's GPIO interface assignment is subjected to Nordic's PCA10040 board, so when using the Nordic SDK's Example Project with MK71511EK1, it is necessary to change the assignment of reset buttons and LEDs. The procedure is described below using the Example Project for the SEGGER Embedded Studio IDE of Blood Pressure Service of nRF SDK v16.0.0 as an example.

1) Open the following project file with SEGGER Embedded Studio IDE.
<unzipped location>¥nRF5_SDK_16.0.0_98a08e2¥examples¥
ble_peripheral¥ble_app_bps¥pca10056e¥s112¥ses¥ble_app_bps_pca10056e_s112.emProject

2) Select Project>Options from the Menu Bar.

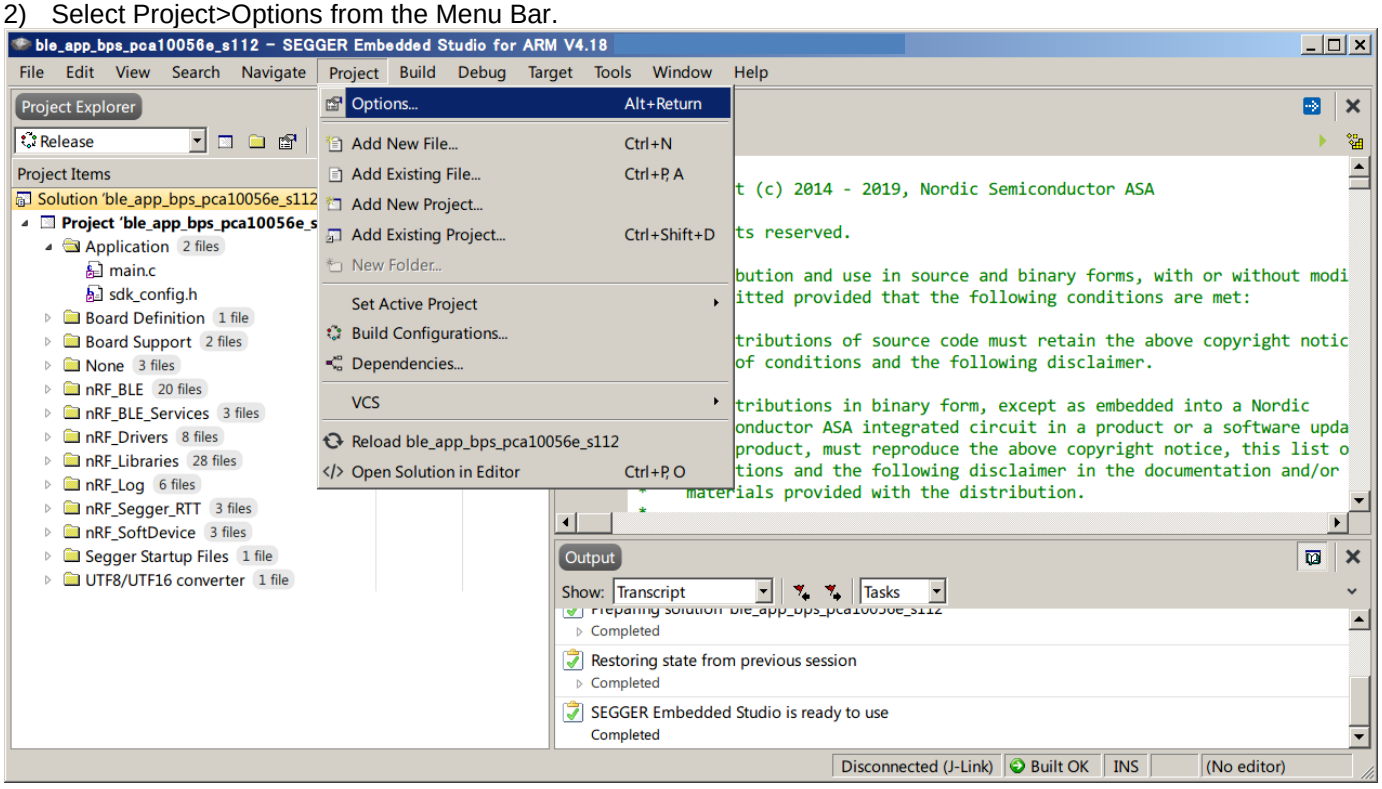


Fig. A-1 : Project "Option" settings

3) Select "Common" setting.

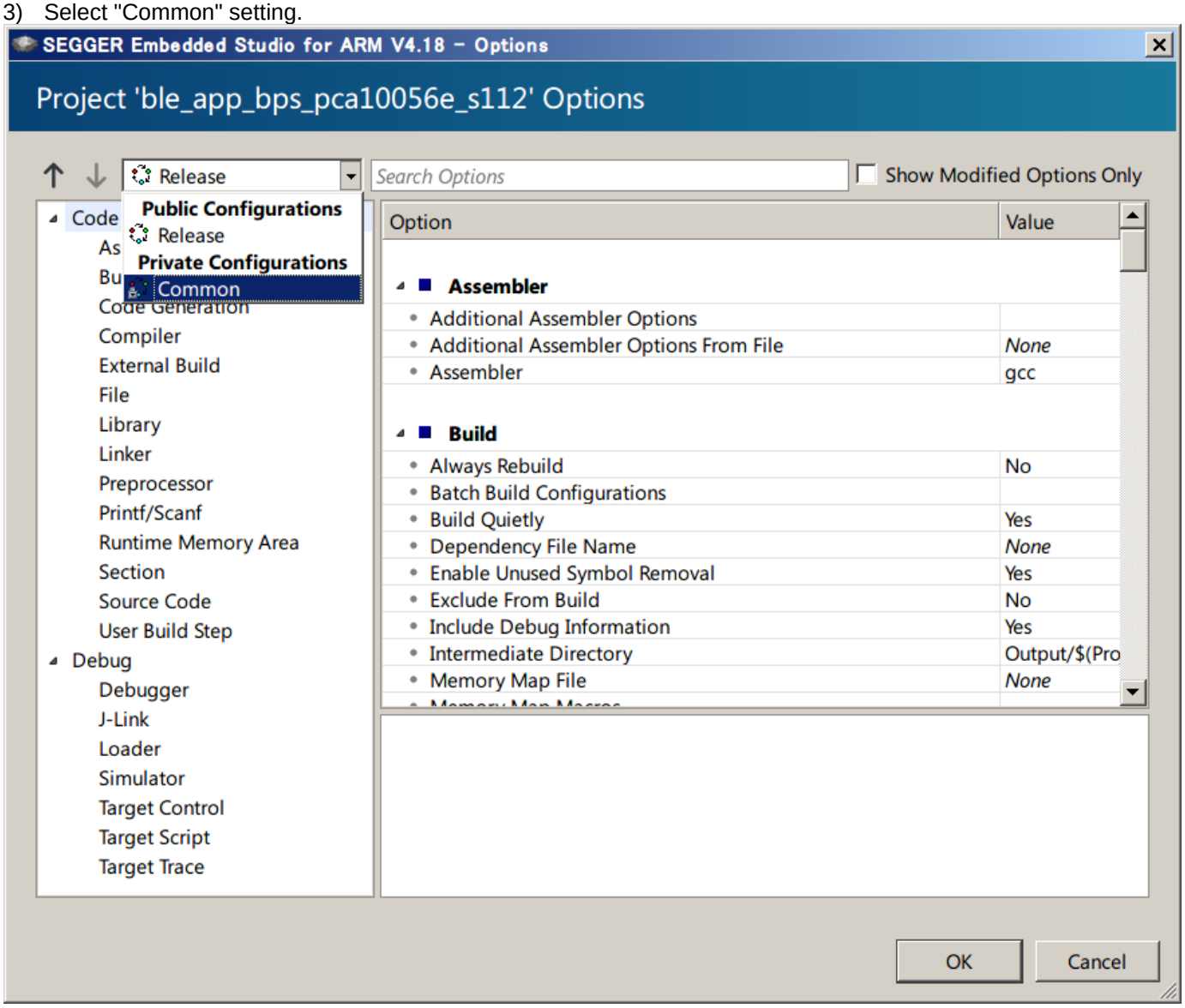


Fig. A-2 : "Common" setting

4) Select "Preprocessor" in "Code list"

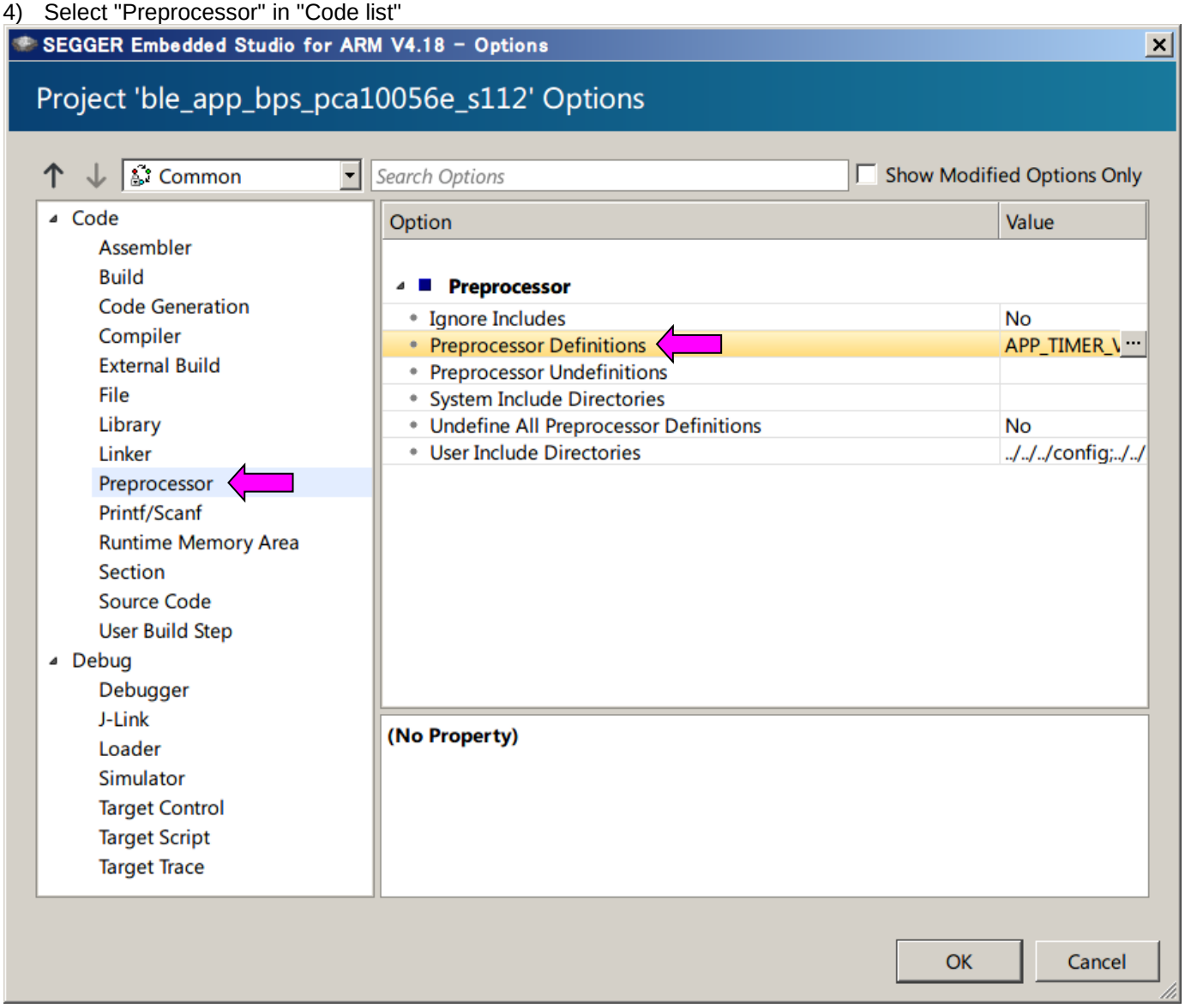


Fig. A-3: "Preprocessor" setting

5) Double-click "Preprocessor Definitions" to display the setting screen.

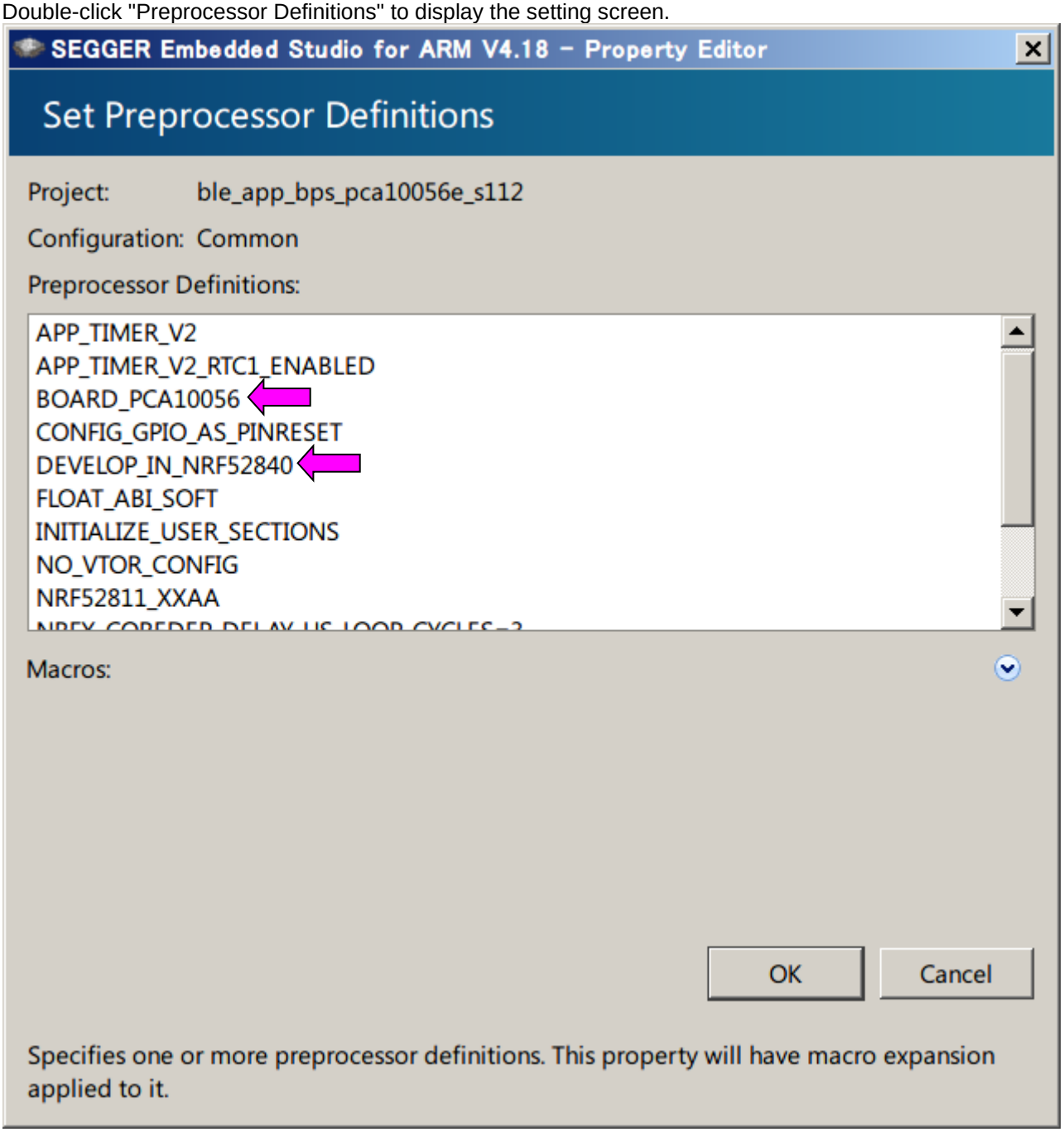


Fig. A-4: Changes to "Preprocessor Definitions"

6) Change "BOARD_PCA10056" to "BOARD_PCA10040".
7) Delete "DEVELOP_IN_NRF52840".

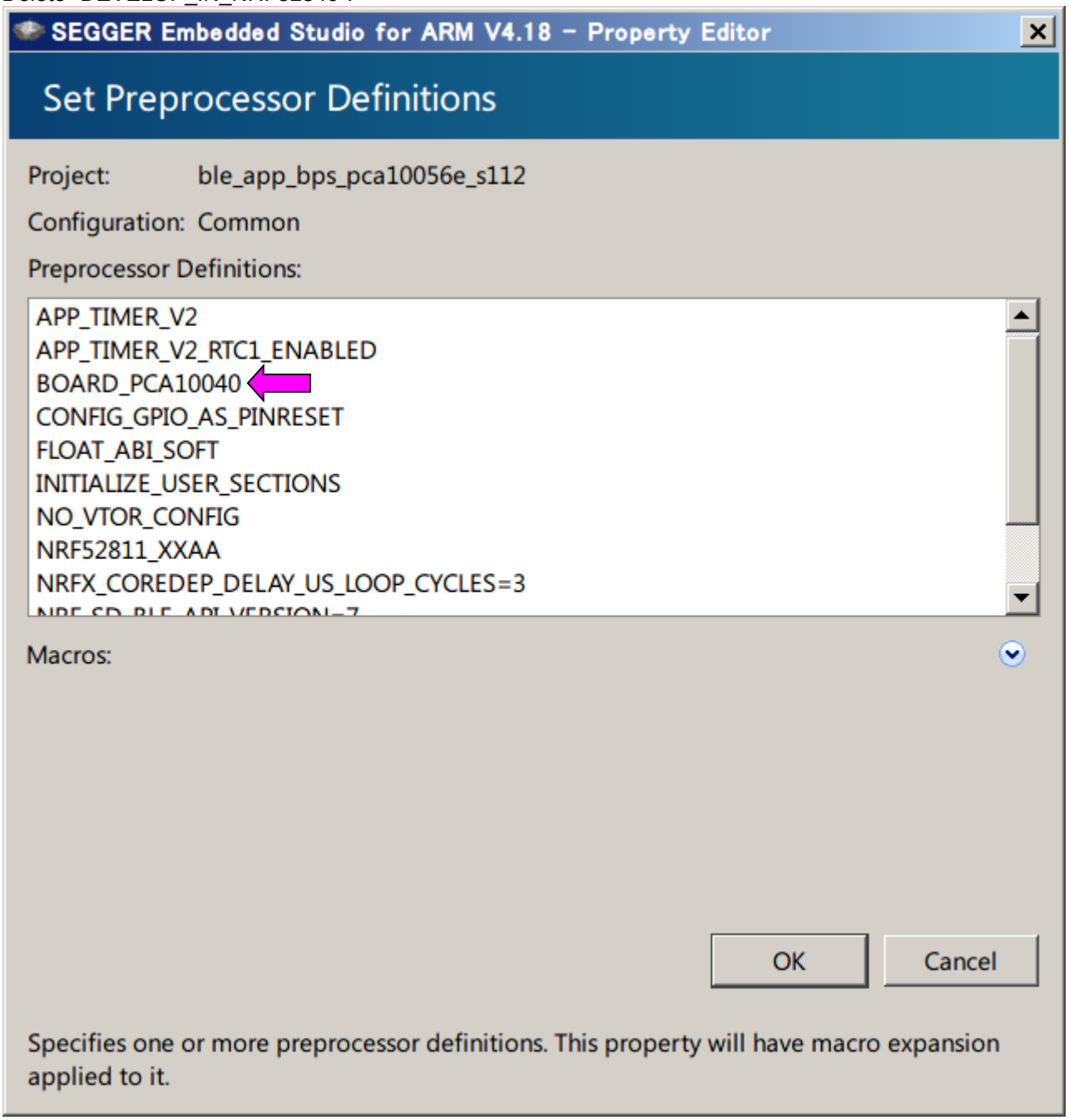


Fig. A-5: Modified "Preprocessor Definitions"

8) Click the "OK" button to close the screen.

Revision History

Document No.	Issue date	Page		Revision description
		Before revision	After revision	
FEXK715x1EK1_ HardManual-01	Dec. 1, 2020	–	–	Final first edition

(Caution) This does not include typographical errors, changes in expressions, or corrections.